

QINGWEI ZENG (Jim Zenn)

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EDUCATION

UNIVERSITY OF CALIFORNIA, LOS ANGELES **2018-2020** **APPLIED MATHEMATICS**

- Works in a project that uses Spark, AsterixDB, and Zeppelin to support big data analytics in cluster.

UNIVERSITY OF CALIFORNIA, BERKELEY **CROSS ENROLLMENT** **COMPUTER SCIENCE**

- Structure and Interpretation of Computer Programs, Data Structures, Computational Models of Cognition.

HARBIN INSTITUTE OF TECHNOLOGY **2013 - 2015** **COMPUTER SCIENCE**

- Algorithms, Probability Theory, Numerical Methods, Modern Algebra, Assembly Language, Set Theory, Graph Theory, Computer Architecture.

PROFESSIONAL EXPERIENCE

UNIVERSITY OF CALIFORNIA, BERKELEY LAB ASSISTANT FOR DATA STRUCTURES **Jun 2017 - Aug 2017**

- Gave review session on data structures and helped students on their project design.

AI FRONTIERS CONFERENCE ORGANIZER **Sep 2016 - Present**

- Build AI Frontiers' conference website and manage its digital marketing.
- Track user behavior flow to improve user experience, and help marketing team retarget users.
- Write scripts so that the website can be generated dynamically but be hosted statically, maximizing flexibility while minimizing the possibility of server errors.
- Provide a backend for easy access and batch operation, enabling a fast, easy, and safe way to update content.

TEAMBITION FRONT-END DEVELOPER **Sep 2015 - Dec 2015**

- Integrated Evernote, GitHub, and other third-party apps into Teambition for cross-platform collaboration.
- Upgraded Teambition's permission system so that admins can have finer access control over their projects.
- Reviewed and merged group members' code.
- Worked with UX team to improve user experience.

PROJECTS

PARALLEL COMPUTING (CMU 15-618) | CUDA, ISPC **2018**

Followed through the course's lectures and completed the assignments.

- Knows how to utilize multiple threads / cores to optimize programs with ISPC or CUDA.

SCHEME INTERPRETER | Python **2017**

A scheme interpreter with lexical and syntactical analysis, evaluation and application.

- Optimized the interpreter with tail call optimization, so that tail recursions are executed like normal iteration.
- Implemented call/cc special form (i.e. call-with-current-continuation), allowing a scheme procedure to keep a status snapshot and come back later. (Similar to Python's generator)
- Implemented define-macro special form, make it possible to use a pre defined macro to create a new procedure.

OBJECT TRACKING AND FOLLOWING | OpenCV, Python **2015**

A camera that identifies, tracks, and follows the object (by turning the camera).

- Used OpenCV to identify and track am specific item in a complex background.
- Programed the camera motors so that the camera can contineuously capture the object while it moves.

SKILLS & INTERESTS

- **LANGUAGES & SKILLS:** Python, Java, Kotlin, C, Go, C++, Swift, Javascript, MATLAB, CoffeeScript, HTML5, CSS3, SASS, Processing, Scheme, Sketch, Assembly, Photoshop, Indesign.
- **FRAMEWORKS & TOOLS:** CUDA, ISPC, Apache Spark, Apache AsterixDB, Apache Zeppelin, Git, Unix, Vim, Django, Flask, Backbone, TensorFlow, Gulp, Hexo, Hugo.

AWARDS & ACTIVITIES

- Vice President of Technology of *Harbin Institute of Technology International Communication Association*.
- House President at Berkeley Student Cooperative.
- Tutor for UC Berkeley's COGSCI 131, *Computational Models of Cognition*.